

BEST AVAILABLE COPY

PATENT COOPERATION TREATY

TO:

ISRAEL PATENT OFFICE
PCT Division
4 Haasdina Street
JERUSALEM 93420
ISRAEL

Telephone No. 02-5651705/695

EB69 1603569

PCT

LIST OF DOCUMENTS FILED WITH THE ISRAEL
RECEIVING OFFICE

International application No. (if known) PCT/IL2004/000118	International filing date (day/month/year) (if known) 5 FEBRUARY 2004	(Earliest) Priority date (day/month/year) 5 FEBRUARY 2004
Applicant		

HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.; LIVNE, Haim et al.

HIGH PERFORMANCE DYNAMIC MIRROR

The applicant hereby requests the RO/IL to acknowledge to the following person (include full name, address, facsimile No. and telephone No.):

FENSTER & COMPANY
Intellectual Property 2002 Ltd.
16 Basel, Petach-Tikva 49510
Mail: P.O.B. 10256, Petach-Tikva 49002

Tel: 03-9215380
Fax: 03-9215383

05.02.2004
PCT D/1603569, 2004

the receipt of the documents/elements listed below:

PCT request (4 pages)
 description (8 pages)
 claims (4 pages)
 abstract (1 pages)
 drawings (2 pages)
 fee calculation sheet } X3

power of attorney (general power, copy of general power) (indicate kind and number)

statement explaining lack of signature (if more than one, indicate number)

priority document (if more than one, indicate number)

separate indications relating to deposited micro-organism (pages)

nucleotide and/or amino acid sequence listing on diskette (if more than one diskette, indicate number)

statement accompanying diskette containing sequence listing

accompanying letter

response to Form PCT/RO/.....(specify) mailed by RO/IL on

other (specify): **PCT-SAFE DISKETTE**

Form PCT/RO/198(RO/IL)

PATENT COOPERATION TREATY

RECEIVED

09-11-2004

From the INTERNATIONAL SEARCHING AUTHORITY

To:

FENSTER & COMPANY, INTELLECTUAL
PROPERTY 2002 LTD.
Attn. Fenster, Paul
P.O. Box 10256
49002 Petach Tikva
ISRAEL

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT AND
THE WRITTEN OPINION OF THE INTERNATIONAL
SEARCHING AUTHORITY, OR THE DECLARATION

PCT FENSTER & Co

(PCT Rule 44.1)

Date of mailing
(day/month/year)

05/11/2004

Applicant's or agent's file reference

200400014PGG

FOR FURTHER ACTION See paragraphs 1 and 4 below

International application No.

PCT/IL2004/000118

International filing date

(day/month/year)

05/02/2004

Applicant

HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.

1. The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.

Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes
1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
 no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. Reminders

Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the International Searching Authority



European Patent Office, P.B. 5818 Patentlaan 2
NL-2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Johannes Van Brummelen

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 26 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b));

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

1. [Where originally there were 48 claims and after amendment of some claims there are 51]:
"Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
2. [Where originally there were 15 claims and after amendment of all claims there are 11]:
"Claims 1 to 15 replaced by amended claims 1 to 11."
3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
"Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
"Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
4. [Where various kinds of amendments are made]:
"Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 18 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 52.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Office, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 200400014PGG	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/IL2004/000118	International filing date (day/month/year) 05/02/2004	(Earliest) Priority Date (day/month/year)
Applicant HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. Certain claims were found unsearchable (See Box II).

3. Unity of invention is lacking (see Box III).

4. With regard to the title,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the abstract,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. 2

as suggested by the applicant.

as selected by this Authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.

b. none of the figures is to be published with the abstract.

10/586957
IAP11 Rec'd PCT/PTO 25 JUL 2006

International application No.

PCT/IL2004/000118

INTERNATIONAL SEARCH REPORT

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

An imager comprising a photosensitive surface; a light source which produces at least one scanning light beam(111); a deflector(112), arranged to deflect the at least one scanning light beam onto the photosensitive surface(108); and a sensor(222) which measures the orientation of the deflector(112). The imager also comprises a controller(120) operative to determine a placement error of said at least one scanning beam(111) on the photosensitive surface(108), responsive to the orientation measurement by the sensor(222); and an actuator, responsive to the displacement error, and arranged to change the direction of deflection of the at least one light beam by the deflector. The sensor(120) is configured to measure the orientation of the deflector(112) substantially at a null in a vibrational mode of the deflector.

INTERNATIONAL SEARCH REPORT

International Application No PCT/IL2004/000118

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G06K15/12 B41J2/47 H04N1/047 G02B26/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G06K B41J H04N G02B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 268 687 A (GREENBERG ABRAHAM ET AL) 7 December 1993 (1993-12-07) cited in the application the whole document	1-34
A	US 4 750 045 A (YAMAGISHI KENICHI ET AL) 7 June 1988 (1988-06-07) the whole document	1-34
A	US 4 453 170 A (ARAO KOZO) 5 June 1984 (1984-06-05) the whole document	1-34

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
- *L* document which may throw doubts on priority, claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search 26 October 2004	Date of mailing of the international search report 05/11/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel: (+31-70) 340-2040, Tx. 31 651 epo nl. Fax: (+31-70) 340-3016	Authorized officer De Groot, R

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/IL2004/000118

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5268687	A	07-12-1993	CA 2088168 A1 DE 69127698 D1 DE 69127698 T2 EP 0541596 A1 JP 3315981 B2 JP 5508939 T WO 9203008 A1 US 5315321 A	31-01-1992 23-10-1997 02-04-1998 19-05-1993 19-08-2002 09-12-1993 20-02-1992 24-05-1994
US 4750045	A	07-06-1988	JP 62176361 A JP 62178919 A JP 62220062 A JP 62247668 A JP 62039815 A JP 1805911 C JP 5011461 B JP 62049768 A JP 1768268 C JP 4057267 B JP 62058770 A JP 1768269 C JP 4057268 B JP 62058771 A JP 1768270 C JP 4058748 B JP 62058772 A JP 62069770 A JP 62071377 A JP 62071378 A JP 62073856 A JP 62085567 A JP 62085568 A JP 62085569 A DE 3650583 D1 DE 3650583 T2 DE 3689454 D1 DE 3689454 T2 EP 0213511 A2 EP 0523750 A1	03-08-1987 06-08-1987 28-09-1987 28-10-1987 20-02-1987 26-11-1993 15-02-1993 04-03-1987 11-06-1993 11-09-1992 14-03-1987 11-06-1993 18-09-1992 14-03-1987 31-03-1987 02-04-1987 02-04-1987 04-04-1987 20-04-1987 20-04-1987 20-04-1987 09-01-1997 27-03-1997 10-02-1994 05-05-1994 11-03-1987 20-01-1993
US 4453170	A	05-06-1984	JP 57114116 A	15-07-1982

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

Fenster & Co.

09-11-2004

Docketed by mm

To:

see form PCT/ISA/220

Applicant's or agent's file reference
see form PCT/ISA/220

International application No.
PCT/L2004/000118

International Patent Classification (IPC) or both national classification and IPC
G06K15/12, B41J2/47, H04N1/047, G02B26/10

Applicant
HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

5-Dec-05

Date of mailing
(day/month/year) see form PCT/ISA/210 (second sheet)

FOR FURTHER ACTION

See paragraph 2 below

International filing date (day/month/year)

05.02.2004

Priority date (day/month/year)

1. This opinion contains indications relating to the following items:

- Box No. I Basis of the opinion
- Box No. II Priority
- Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- Box No. IV Lack of unity of invention
- Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- Box No. VI Certain documents cited
- Box No. VII Certain defects in the international application
- Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:



European Patent Office - P.B. 5818 Patentlaan 2
NL-2280 HV Rijswijk - Pays Bas
Tel. +31 70 340-2040 Tx: 31 651 epo nl
Fax: +31 70 340-3016

Authorized Officer

De Groot, R

Telephone No. +31 70 340-2119



**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/L2004/000118

Box No. I Basis of the opinion

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
 - This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. **type of material:**
 - a sequence listing
 - table(s) related to the sequence listing
 - b. **format of material:**
 - in written format
 - in computer readable form
 - c. **time of filing/furnishing:**
 - contained in the international application as filed.
 - filed together with the international application in computer readable form.
 - furnished subsequently to this Authority for the purposes of search.
3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/L2004/000118

**Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or
industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Yes: Claims	1-34
	No: Claims	
Inventive step (IS)	Yes: Claims	1-34
	No: Claims	
Industrial applicability (IA)	Yes: Claims	1-34
	No: Claims	

2. Citations and explanations

see separate sheet

10/586957

IAP11 Rec'd PCT/PTO 25 JUL 2004

International application No.

PCT/IL2004/000118

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING
AUTHORITY (SEPARATE SHEET)**

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

It is clear from the description on page 1, lines 27 and 28, that the imager and method of the imager relate to mechanical vibratory modes of the long mirror excited by the control system.

Claims 1 and 19 are therefore more general than supported by the description. For this Written Opinion claims 1 and 19 have been interpreted as follows: vibrational mode of the deflector excited by the control system comprising said controller and said actuator.

Reference is made to the following document:

D1: US-A-5 268 687 (GREENBERG ABRAHAM ET AL) 7 December 1993 (1993-12-07)

Document D1 (fig. 1) discloses an imager comprising all the features of claim 1 with the exception that the sensor is configured to measure the orientation of the deflector substantially at a null in a vibrational mode of the deflector.

Document D1 discloses also all the steps mentioned in claim 19 with the exception that the measurement of the orientation of the deflector is made at a location on the deflector in the vicinity of a null of a vibrational mode of the deflector.

The problem to be solved is to remedy the low print quality (due to control instability).

No available document shows the claimed solution with the features or steps mentioned above.

Thus claims 1 to 34 are considered to meet the requirements of Art. 33 PCT.

PATENT COOPERATION TREATY

Fenster & Co.

09-11-2004

Docketed by mm

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

PCT

see form PCT/ISA/220

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

5-Dec-05

Date of mailing
(day/month/year) see form PCT/ISA/210 (second sheet)

FOR FURTHER ACTION

See paragraph 2 below

Applicant's or agent's file reference
see form PCT/ISA/220

International application No.
PCT/IL2004/000118

International filing date (day/month/year)
05.02.2004

Priority date (day/month/year)

International Patent Classification (IPC) or both national classification and IPC
G06K15/12, B41J24/7, H04N1/047, G02B26/10

Applicant

HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.

1. This opinion contains indications relating to the following items:

- Box No. I Basis of the opinion
- Box No. II Priority
- Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- Box No. IV Lack of unity of invention
- Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- Box No. VI Certain documents cited
- Box No. VII Certain defects in the international application
- Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:



European Patent Office - P.B. 5818 Patentlaan 2
NL-2280 HV Rijswijk - Pays Bas
Tel. +31 70 340 - 2040 Tx: 31 651 epo nl
Fax: +31 70 340 - 3016

Authorized Officer

De Groot, R

Telephone No. +31 70 340-2119



WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/IL2004/000118

Box No. I Basis of the opinion

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
 This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material:
 a sequence listing
 table(s) related to the sequence listing
 - b. format of material:
 in written format
 in computer readable form
 - c. time of filing/furnishing:
 contained in the international application as filed.
 filed together with the international application in computer readable form.
 furnished subsequently to this Authority for the purposes of search.
3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/L2004/000118

**Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or
Industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Yes: Claims	1-34
	No: Claims	
Inventive step (IS)	Yes: Claims	1-34
	No: Claims	
Industrial applicability (IA)	Yes: Claims	1-34
	No: Claims	

2. Citations and explanations

see separate sheet

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING
AUTHORITY (SEPARATE SHEET)**

International application No.
PCT/IL2004/000118

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

It is clear from the description on page 1, lines 27 and 28, that the imager and method of the imager relate to mechanical vibratory modes of the long mirror excited by the control system.

Claims 1 and 19 are therefore more general than supported by the description. For this Written Opinion claims 1 and 19 have been interpreted as follows: vibrational mode of the deflector excited by the control system comprising said controller and said actuator.

Reference is made to the following document:

D1: US-A-5 268 687 (GREENBERG ABRAHAM ET AL) 7 December 1993 (1993-12-07)

Document D1 (fig. 1) discloses an imager comprising all the features of claim 1 with the exception that the sensor is configured to measure the orientation of the deflector substantially at a null in a vibrational mode of the deflector.

Document D1 discloses also all the steps mentioned in claim 19 with the exception that the measurement of the orientation of the deflector is made at a location on the deflector in the vicinity of a null of a vibrational mode of the deflector.

The problem to be solved is to remedy the low print quality (due to control instability).

No available document shows the claimed solution with the features or steps mentioned above.

Thus claims 1 to 34 are considered to meet the requirements of Art. 33 PCT.

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